

## WEST

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File: DWPI

Feb 10, 1997

DERWENT-ACC-NO: 1997-175602  
DERWENT-WEEK: 200003  
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TITLE: Solid agents for dialysis - comprises electrolytic components with e.g.  
sodium chloride core, double salt outer layer and pH adjuster.

## PATENT-ASSIGNEE:

ASSIGNEE

TOMITA SEIYAKU KK

CODE

TOMIN

PRIORITY-DATA: 1995JP-0197648 (August 2, 1995)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 09040562 A	February 10, 1997		015	A61K033/14
JP 2987488 B2	December 6, 1999		015	A61K033/14
KR 97009819 A	March 27, 1997		000	A61M001/14

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 09040562A	August 2, 1995	1995JP-0197648	
JP 2987488B2	August 2, 1995	1995JP-0197648	
JP 2987488B2		JP 9040562	Previous Publ.
KR 97009819A	May 9, 1996	1996KR-0015192	

INT-CL (IPC): A61 K 31/00; A61 K 33/14; A61 M 1/14; A61 K 31:19; A61 K 33/14; A61 K 33:06; A61 K 31:19; A61 K 31:70; A61 K 33/14; A61 K 33:06

ABSTRACTED-PUB-NO: JP 09040562A

## BASIC-ABSTRACT:

Solid agents comprise electrolytic components of sodium chloride, potassium chloride, calcium chloride and/or potassium chloride, and an outer layer made of a double salt of Na acetate and CaCl<sub>2</sub>, and a pH adjusting agent, partic ACOH, opt with glucose, and average core sizes of 150-2,000, pref 250-1,000 micron.

ADVANTAGE - Easily soluble agents for dialysis are prepd an transported at low cost. The double salt is prepd by a reaction of NaOAc and CaCl<sub>2</sub> having a specific peak at 2-theta = about 6.8-7.0 deg (X ray: Cu lambda (K-alpha 1) = 1.5405 Angstrom). The agents for dialysis opt contain NaHCO<sub>3</sub>. Three layered solid agents contain electrolytes of NaCl, KCl, CaCl<sub>2</sub>, MgCl<sub>2</sub> and NaOAc, a pH adjusting agent and glucose, having cores of NaCl and/or KCl, double salt layer of NaOAc and CaCl<sub>2</sub>, and glucose, and an outer layer of glucose. 3 methods for their prodn are pref. The tablets can be prepd by addn of water to a mixt of NaCl, KCl, MgCl<sub>2</sub> and NaOAc. The mixt is kneaded at 50-1000 deg C and CaCl<sub>2</sub> was added to make water content of 20-300 wt% to CaCl<sub>2</sub> to give cores. The cores are coated with a double salt of NaOAc and CaCl<sub>2</sub>, opt contg glucose.

In an example, in 4.7 L of pure water, 250.20 kg of NaCl, 6.15 kg of KCl, 4.27 kg of MgCl<sub>2</sub> and 20.34 kg of NaOAc were added and mixed at 70 deg C. Then, 9.07 kg of CaCl<sub>2</sub>

was added and kneaded to give granules. The granules were dried to give the prods.

CHOSEN-DRAWING: Dwg.0/15

TITLE-TERMS: SOLID AGENT DIALYSE COMPRISE ELECTROLYTIC COMPONENT SODIUM CHLORIDE  
CORE DOUBLE SALT OUTER LAYER PH ADJUST

DERWENT-CLASS: B05 J01 P34

CPI-CODES: B05-A01A; B05-A01B; B10-C04E; B12-M11B; B12-M11D; J01-C03B;

CHEMICAL-CODES:

Chemical Indexing M2 \*01\*

Fragmentation Code

J0 J011 J1 J171 M210 M211 M262 M281 M320 M416

M431 M620 M782 M903 M904 M910 P723 Q431 R038

Specific Compounds

00247M

Registry Numbers

0247U

Chemical Indexing M2 \*02\*

Fragmentation Code

A111 A960 C710 J0 J011 J1 J171 M210 M211 M262

M281 M320 M411 M431 M510 M520 M530 M540 M620 M630

M782 M903 M904 M910 P723 Q431 R038

Specific Compounds

01081M

Registry Numbers

1081U

Chemical Indexing M2 \*03\*

Fragmentation Code

A220 A940 C017 C100 C730 C801 C803 C804 C805 C806

C807 M411 M431 M782 M903 M904 M910 P723 Q431 R038

Specific Compounds

01895M

Registry Numbers

1895U

Chemical Indexing M2 \*04\*

Fragmentation Code

H4 H405 H484 H8 J4 J471 K0 L8 L814 L821

L831 M280 M315 M321 M332 M344 M349 M381 M391 M416

M431 M620 M782 M903 M904 M910 P723 Q431 R038

Specific Compounds

00038M

Registry Numbers

0038U

Chemical Indexing M2 \*05\*

Fragmentation Code

A119 A940 C017 C100 C730 C801 C803 C804 C805 C806

C807 M411 M431 M782 M903 M904 M910 P723 Q431 R038

Specific Compounds

01678M

Registry Numbers

1678U

Chemical Indexing M2 \*06\*

Fragmentation Code

A111 A940 C017 C100 C730 C801 C803 C804 C805 C806

C807 M411 M431 M782 M903 M904 M910 P723 Q431 R038

Specific Compounds

01706M

Registry Numbers

1706U

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0038U; 0247U ; 1081U ; 1678U ; 1706U ; 1895U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1997-056177

Non-CPI Secondary Accession Numbers: N1997-145131

## WEST

## End of Result Set



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File: DWPI

Jul 2, 1996

DERWENT-ACC-NO: 1996-358473

DERWENT-WEEK: 199636

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TITLE: Sodium hydrogen carbonate dialysis fluid and its prepn. - comprises laminated prepn. comprises sodium chloride core, 1st layer contg. calcium and magnesium salts, 2nd layer contg. organic acid and 3rd layer contg. sodium hydrogen carbonate

## PATENT-ASSIGNEE:

ASSIGNEE

MORISHITA ROUSSEL KK

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PRIORITY-DATA: 1994JP-0169945 (June 28, 1994)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 08169836 A	July 2, 1996		005	A61K033/00

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 08169836A	June 28, 1994	1994JP-0169945	

INT-CL (IPC): A61 K 9/20; A61 K 31/19; A61 K 31/70; A61 K 33/00; A61 K 47/26; A61 M 1/14; A61 K 31:19; A61 K 31:70; A61 K 33/00

ABSTRACTED-PUB-NO: JP 08169836A

## BASIC-ABSTRACT:

The laminated prepn. comprises: (a) core contg. sodium chloride, (b) 1st layer contg. calcium and magnesium salts, (c) 2nd layer contg. organic acid such as acetic acid, lactic acid, citric acid, tartaric acid, maleic acid, oxaloacetic acid, isocitric acid and malic acid, and (d) 3rd layer contg. sodium hydrogen carbonate.

USE - The fluid is used for haemodialysis.

ADVANTAGE - The prepn. is pharmaceutically stable and causes no carbonate precipitation. It is rapidly dissolved. Glucose solution is pref. used as a binding agent for laminating the prepn. The prepn. is placed in the moisture-proof container with a drying agent and the air in the container is substituted with carbon dioxide gas.

In an example, the 1st layer was prepd. by mixing magnesium chloride (17.9g), calcium chloride (38.7g) and potassium chloride (26.1g) and grinding using a mill into micropowder. The inner phase of the 2nd layer was prepared by mixing citric acid (35g) and sodium chloride (105g) and grinding to micropowder. The middle layer was prepared by mixing glucose (91.0g), sodium acetate (85.9g) and sodium chloride (100.9g) and grinding into micropowder. The outer phase was prepared by grinding sodium chloride (157.5g) into micropowder. The 3rd layer was prepared by grinding sodium hydrogen carbonate (441g) into micropowder. The laminated prepn. was prepared by rotating sodium chloride (700g) with particle diameter of 350 to 500 micron in a granulation coating equipment at 200 rpm, and laminating the 1st layer, inner,

middle and outer phases of the 2nd layer and the 3rd layer while spraying glucose solution.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: SODIUM HYDROGEN CARBONATE DIALYSE FLUID PREPARATION COMPRISE LAMINATE PREPARATION COMPRISE SODIUM CHLORIDE CORE LAYER CONTAIN CALCIUM MAGNESIUM SALT LAYER CONTAIN ORGANIC ACID LAYER CONTAIN SODIUM HYDROGEN CARBONATE

DERWENT-CLASS: B05 B06 E17 E33 E34 J01 P34

CPI-CODES: B05-A01B; B10-C04; E10-C02; E10-C04D4; E10-C04J2; E33-B; E33-D; E34-B; E34-D; J01-C03B1;

CHEMICAL-CODES:

Chemical Indexing M2 \*01\*

Fragmentation Code

J0 J011 J1 J171 M210 M211 M262 M281 M320 M416

M424 M430 M620 M740 M782 M903 M904 M910 N105 Q431

R045

Specific Compounds

00247M

Registry Numbers

0247U

Chemical Indexing M3 \*02\*

Fragmentation Code

J0 J011 J1 J171 M210 M211 M262 M281 M320 M416

M424 M430 M620 M740 M782 M903 M904 M910 N105 Q431

R045

Specific Compounds

00247M

Registry Numbers

0247U

Chemical Indexing M2 \*03\*

Fragmentation Code

A220 A940 A960 A970 C710 C730 M411 M417 M424 M430

M740 M782 M903 M904 N105 Q431 R045

Specific Compounds

06646M

Chemical Indexing M3 \*04\*

Fragmentation Code

A220 A940 A960 A970 C710 C730 M411 M417 M424 M430

M740 M782 M903 M904 N105 Q431 R045

Specific Compounds

06646M

Chemical Indexing M2 \*05\*

Fragmentation Code

H4 H401 H481 H8 J0 J013 J1 J173 M280 M313

M321 M332 M344 M349 M381 M391 M416 M424 M430 M620

M740 M782 M903 M904 M910 N105 Q431 R045

Specific Compounds

00419M

Registry Numbers

0419U

Chemical Indexing M3 \*06\*

Fragmentation Code

H4 H401 H481 H8 J0 J013 J1 J173 M280 M313

M321 M332 M344 M349 M381 M391 M416 M424 M430 M620

M740 M782 M903 M904 M910 N105 Q431 R045

## Specific Compounds

00419M

## Registry Numbers

0419U

## Chemical Indexing M2 \*07\*

## Fragmentation Code

H4 H401 H481 H8 J0 J013 J1 J173 M280 M313  
M321 M332 M344 M349 M381 M391 M416 M424 M430 M620  
M740 M782 M903 M904 N105 Q431 R045

## Specific Compounds

03038M

## Chemical Indexing M3 \*08\*

## Fragmentation Code

H4 H401 H481 H8 J0 J013 J1 J173 M280 M313  
M321 M332 M344 M349 M381 M391 M416 M424 M430 M620  
M740 M782 M903 M904 N105 Q431 R045

## Specific Compounds

03038M

## Chemical Indexing M2 \*09\*

## Fragmentation Code

H4 H401 H481 H8 J0 J011 J1 J171 M280 M312  
M321 M331 M340 M342 M349 M381 M391 M416 M424 M430  
M620 M740 M782 M903 M904 M910 N105 Q431 R045

## Specific Compounds

00009M

## Registry Numbers

0009U

## Chemical Indexing M3 \*10\*

## Fragmentation Code

H4 H401 H481 H8 J0 J011 J1 J171 M280 M312  
M321 M331 M340 M342 M349 M381 M391 M416 M424 M430  
M620 M740 M782 M903 M904 M910 N105 Q431 R045

## Specific Compounds

00009M

## Registry Numbers

0009U

## Chemical Indexing M2 \*11\*

## Fragmentation Code

A212 A940 A960 A970 C710 C730 M411 M417 M424 M430  
M740 M782 M903 M904 N105 Q431 R045

## Specific Compounds

06645M

## Chemical Indexing M3 \*12\*

## Fragmentation Code

A212 A940 A960 A970 C710 C730 M411 M417 M424 M430  
M740 M782 M903 M904 N105 Q431 R045

## Specific Compounds

06645M

## Chemical Indexing M2 \*13\*

## Fragmentation Code

H7 H721 J0 J012 J1 J172 M280 M312 M321 M332  
M342 M382 M391 M416 M424 M430 M740 M782 M903 M904  
M910 N105 Q431 R045

## Specific Compounds

00901M

## Registry Numbers

0901U

## Chemical Indexing M3 \*14\*

## Fragmentation Code

H7 H721 J0 J012 J1 J172 M280 M312 M321 M332  
M342 M382 M391 M416 M424 M430 M740 M782 M903 M904  
M910 N105 Q431 R045

## Specific Compounds

00901M

## Registry Numbers

0901U

## Chemical Indexing M2 \*15\*

## Fragmentation Code

H4 H401 H481 H8 J0 J012 J1 J172 M280 M312  
M321 M332 M343 M349 M381 M391 M416 M424 M430 M620  
M740 M782 M903 M904 M910 N105 Q431 R045

## Specific Compounds

01656M

## Registry Numbers

1656U

## Chemical Indexing M3 \*16\*

## Fragmentation Code

H4 H401 H481 H8 J0 J012 J1 J172 M280 M312  
M321 M332 M343 M349 M381 M391 M416 M424 M430 M620  
M740 M782 M903 M904 M910 N105 Q431 R045

## Specific Compounds

01656M

## Registry Numbers

1656U

## Chemical Indexing M2 \*17\*

## Fragmentation Code

A111 A940 C101 C106 C108 C530 C730 C801 C802 C805  
C807 M411 M424 M430 M740 M782 M903 M904 M910 N105  
Q431 R045

## Specific Compounds

01151M

## Registry Numbers

1151U

## Chemical Indexing M3 \*18\*

## Fragmentation Code

A111 A940 C101 C106 C108 C530 C730 C801 C802 C805  
C807 M411 M424 M430 M740 M782 M903 M904 M910 N105  
Q431 R045

## Specific Compounds

01151M

## Registry Numbers

1151U

## Chemical Indexing M2 \*19\*

## Fragmentation Code

A111 A940 C017 C100 C730 C801 C803 C804 C805 C806  
C807 M411 M424 M430 M740 M782 M903 M904 M910 N105  
Q431 R045

## Specific Compounds

01706M

## Registry Numbers

1706U

## Chemical Indexing M3 \*20\*

## Fragmentation Code

A111 A940 C017 C100 C730 C801 C803 C804 C805 C806  
C807 M411 M424 M430 M740 M782 M903 M904 M910 N105  
Q431 R045

Specfic Compounds  
01706M  
Registry Numbers  
1706U

## Chemical Indexing M2 \*21\*

## Fragmentation Code

H4 H402 H482 H8 J0 J012 J1 J172 M280 M312  
M321 M332 M344 M349 M381 M391 M416 M424 M430 M620  
M740 M782 M903 M904 M910 N105 Q431 R045

## Specfic Compounds

00540M

## Registry Numbers

0540U

## Chemical Indexing M3 \*22\*

## Fragmentation Code

H4 H402 H482 H8 J0 J012 J1 J172 M280 M312  
M321 M332 M344 M349 M381 M391 M416 M424 M430 M620  
M740 M782 M903 M904 M910 N105 Q431 R045

## Specfic Compounds

00540M

## Registry Numbers

0540U

UNLINKED-DERWENT-REGISTRY-NUMBERS: 0009U; 0247U ; 0419U ; 0540U ; 0901U ; 1151U ;  
1656U ; 1706U

## SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1996-113019

Non-CPI Secondary Accession Numbers: N1996-302249